

AMENDMENTS TO THE CLAIMS

Pursuant to 37 C.F.R. § 1.121 the following listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A band stop filter, which comprises:

a ~~transmitting~~ transmission line with a center conductor and an outer conductor and a plurality of coaxial resonators[[,]];

the outer conductor forming ~~which form~~ a unitary conductive housing[[,]] having ~~an~~ the inner space of which is divided by conductive partition walls into resonator cavities[[,]];

each of said resonator cavities containing at least one of the plurality of coaxial resonators, wherein each of the of which coaxial resonators separately has an electromagnetic coupling to the ~~transmitting~~ transmission line[[,]];

said coupling arranged by a coupling element to form an attenuation peak in ~~the a~~ response curve of the filter, the natural frequencies of the coaxial resonators differing from each other to shape the response curve of the filter ~~further~~[[,]];

~~wherein, in order to reduce the number of structural parts and conductor junctions, the center conductor of the transmitting line, or the transmitting~~ transmission conductor[[,]] is located inside said housing, running through openings in said partition walls across all the resonator cavities[[,]]; and

~~wherein in which case the housing at the same time is the outer conductor of the transmitting~~ transmission line, and a portion of the ~~transmitting~~ transmission conductor in a resonator cavity ~~at the same time~~ is said coupling element.

2. (Currently Amended) The band stop filter according to Claim 1, the ~~transmitting~~ transmission conductor being a unitary rod-like piece.

3. (Currently Amended) The band stop filter according to Claim 1, the ~~transmitting~~ transmission conductor running beside inner conductors of the coaxial resonators.
4. (Currently Amended) The band stop filter according to Claim 1, the ~~transmitting~~ transmission conductor running above inner conductors of the coaxial resonators.
5. (Currently Amended) The band stop filter according to Claim 1, the ~~resonator-specific~~ coupling element for each coaxial resonator including, in addition to a portion of the ~~transmitting~~ transmission conductor, a conductor, which connects it galvanically to a bottom of the housing.
6. (Currently Amended) The band stop filter according to Claim 2, the distance between the inner conductor of at least a first coaxial resonator and the ~~transmitting~~ transmission conductor differing from the distance between the inner conductor of a second coaxial resonator and the ~~transmitting~~ transmission conductor to adjust the strength of the couplings and thus to shape the response curve of the filter.
7. (Original) The band stop filter according to Claim 1, at least a distance between inner conductors of two successive coaxial resonators differing from another distance between inner conductors of two sequential coaxial resonators to match the impedance of transmitting path formed by the filter.
8. (Currently Amended) The band stop filter according to Claim 1, comprising an additional cavity in its housing for some additional function, and said ~~transmitting~~ transmission conductor also runs across the additional cavity.
9. (Currently Amended) The band stop filter according to Claim 8, the ~~transmitting~~ transmission conductor having in the additional cavity relatively thick and thin portions by turns, in which case said additional function is low-pass filtering.